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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/732,417	12/07/2000	Chung-Seok Han	678-565 (P9615)	1514

7590 08/10/2004

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EXAMINER
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LY, NGH I H

ART UNIT	PAPER NUMBER
2686	10

DATE MAILED: 08/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/732,417

Applicant(s)

HAN, CHUNG-SEOK

Examiner

Nghi H. Ly

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5 and 8-10 is/are allowed.
- 6) ☒ Claim(s) 6 and 7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's admitted prior art in view of Buskens et al (US 5,943,334).

Regarding claims 6 and 7, the Applicant's admitted prior art teaches a method of recovering a dropped call in a mobile station (see the Applicant's Background of The Invention, page 2, lines 1-5), comparing the steps of: searching for an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher (see the Applicant's Background of The Invention, page 3, lines 10-11), when a call is dropped (see the Applicant's Background of The Invention, page 3, lines 10-11).

The Applicant's admitted prior art does not specifically disclose assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission, and resuming the call on the assigned traffic channel.

Buskens teaches assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission (see column 2, lines 20-32, in Buskens, the "information transmitted over the

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connection channel" reads on Applicant's "physical channel"), and resuming the call on the assigned traffic channel (see column 2, lines 20-32, "so that the may be continued).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the above teaching of Buskens into the system of the Applicant's admitted prior art in order to reestablish calls affected by loss of synchronization (see Buskens, Abstract).

***Allowable Subject Matter***

3. Claims 1-5 and 8-10 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1, 5, 8 and 10, the admitted prior art teaches a method of recovering a dropped call in a mobile station (see the Applicant's Background of The Invention, page 2 lines 1-5), comprising the steps of: determining whether two consecutive good frames have been received on a traffic channel that was disconnected in relation to the dropped call (see the Applicant's Background of The Invention, page 4 lines 2-7), while the frame receipt is checked (also see the Applicant's Background of The Invention, page 4 lines 4-11), searching an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher (see the Applicant's Background of The Invention, page 3, lines 10-11) and requesting a channel at mobile station to the

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searched base station (see the Applicant's Background of The Invention, page 3, lines 1-2).

Buskens teaches assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission (see the Applicant's Background of The Invention, page 2, lines 1-5 "paging channel", and see page 3, line 16 to page 4, line 19, "traffic channel").

The Applicant's admitted prior art and Buskens, alone or in combination fails to teach resuming the call on the traffic channel that is first available between one of the recovered traffic channel and the assigned traffic channel.

Dependent claims 2-4 and 9 are allowable for the same reason.

### ***Response to Arguments***

6. Applicant's arguments with respect to claims 6 and 7 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (703) 605-5164. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (703) 305-4379.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nghi H. Ly

*NHL*  
07/30/04

*[Signature]*  
8/4/04  
LESTER G. KINCAID  
PRIMARY EXAMINER